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(54) **COMPENSATION CIRCUIT FOR POWER SUPPLY FLUCTUATION OF SWITCHING AMPLIFIER**

(57) Abstract:

PURPOSE: To remove influence by reflecting power fluctuation on the input (PWM signal) of a switching amplifier.

CONSTITUTION: A PCM/PWM converter 10 is provided with a PWM conversion part 11 converting the output (PCM signal) of a volume 51 into the PWM signal, a correction factor calculation part 12 calculating the correction factor α of a pulse width from a fluctuated quantity with a power source V_{cc} detected in a power fluctuation detection circuit 30, a weighting calculation part 13 calculating a weighting coefficient β from the coefficient of the volume 51 detected in a volume position detection circuit 40 and a synthesis part 14 correcting the pulse width of the PWM signal obtained in the PWM conversion part 11 by using the correction factor α and the weighting coefficient β. The correction factor α of power fluctuation is proportional to V_{cc}/V_{cc}' if V_{cc} is set to be a maximum value and V_{cc}' to be a present value. On the other hand, the weighting coefficient β has a characteristic that it becomes small as the output level of the volume 51 increases.